

**ABSTRACT**

**MICROSCOPE SYSTEM AND METHOD**

5 A microscope system and method is described for determining a position of an  
area of an object within the complete object, wherein the image of the area of the  
object is contained within a field of view of a microscope. Image data  
representing a low magnification image of the complete object is available for use  
in the method, and may be acquired using a low magnification image data source  
such as a scanner. The method comprises acquiring high magnification image  
10 data representing an image of the field of view of the microscope, typically from a  
digital camera attached to the microscope; processing the high magnification  
image data to reduce the resolution thereof; comparing the processed high  
magnification image data with portions of the low magnification image data, and,  
determining said position based on the results of said comparison. In a preferred  
15 embodiment, the method is implemented in the form of a computer program  
running on a workstation, which displays, on a display screen the field of view  
image, and the image of the complete object, in which the position of the area of  
the object in field of view is highlighted.